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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/369,236	08/04/1999	GRANT A. KRAFFT	97002-C	6514	
20306 75	90 10/06/2004		EXAMINER		
MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP 300 S. WACKER DRIVE			GUPTA, ANISH		
32ND FLOOR	RURIVE		ART UNIT	PAPER NUMBER	
CHICAGO, IL 60606			1654		
			DATE MAILED: 10/06/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Appl	ication No.	Applicant(s)				
Office Action Summary		69,236	KRAFFT ET AL.				
		niner	Art Unit				
	Anish	n Gupta	1654				
The MAILING DATE of this com Period for Reply	munication appears o	n the cover sheet with the	correspondence add	dress			
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMM  - Extensions of time may be available under the provafter SIX (6) MONTHS from the mailing date of this lif the period for reply specified above is less than the If NO period for reply is specified above, the maxim  - Failure to reply within the set or extended period for Any reply received by the Office later than three me earned patent term adjustment. See 37 CFR 1.704	MUNICATION. risions of 37 CFR 1.136(a). In communication. hirty (30) days, a reply within the um statutory period will apply r reply will, by statute, cause the onths after the mailing date of the	no event, however, may a reply be ne statutory minimum of thirty (30) d and will expire SIX (6) MONTHS fro ne application to become ABANDO	timely filed lays will be considered timely om the mailing date of this co NED (35 U.S.C. § 133).				
Status							
1) Responsive to communication (s	s) filed on <u>14 July 200</u>	<u>)4</u> .					
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This action is non-final.							
3) Since this application is in cond closed in accordance with the p		•		merits is			
Disposition of Claims							
4) ⊠ Claim(s) <u>1-3,11,45 and 46</u> is/are 4a) Of the above claim(s) 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-3,11,45 and 46</u> is/are 7) □ Claim(s) is/are objected 8) □ Claim(s) are subject to re	is/are withdrawn from e rejected.	n consideration.					
Application Papers							
9)☐ The specification is objected to t	y the Examiner.						
10) The drawing(s) filed on is	)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any		•	• •				
Replacement drawing sheet(s) inclining The oath or declaration is object	1						
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a classification and all birds and some and all birds are copied and all birds are copied and all copies of the price and all copies of the certified copied application from the Interest and a second and all copies are copied and all copies are cop	of: ority documents have ority documents have oies of the priority doc national Bureau (PCT	been received. been received in Application cuments have been received Rule 17.2(a)).	ation No ved in this National S	Stage			
Attachment(s)		_					
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Revi     Information Disclosure Statement(s) (PTO-14     Paper No(s)/Mail Date	, ,	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:		-152)			

1. The amendment filed, 7-14-04, is acknowledged. Claim 1, -3, and 11 were amended by the amendment. Claims 1-3, 11, and 45-46 are pending in this application.

2. In light of Applicants response, all rejection made in the previous office action are hereby withdrawn. New Grounds of Rejections to address the amendments to the claims follow below.

## **New Grounds For Rejection**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3, 11 and 45-46 are rejected under 35 U.S.C. 102(b) as being anticipated by Kuo et al.

The claims have been amended, again, to recite that the claimed proteins have 13 to 24 amyloid  $\beta$ 1-42 proteins. Dependent claims state that the molecular weight of this isolated oligomeric structure is between 36 and 108kDa (see claim 3). The reference discloses oligomeric structures that have a molecular weight greater than 100kDa. Specifically, sample table III of the reference discloses numerous samples that have A $\beta$  N1-42, in combination with A $\beta$  N1-40, which are soluble and have a molecular weight great than 100kDa (see page 4080, table III). The reference also discloses water-soluble proteins that have a molecular weight of between 100kDa and 30kDa.

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Note that these disclosed molecular weight are well within the range claimed in claim 3 of the instant application. Moreover, the reference discloses that the these molecular weight fractions were ocatmeric or larger (see page 4080, left column). Since the reference discloses water soluble amlyoid  $\beta$  N-42 having a polymeric structure, that are octameric or larger, and have a molecular weight within the range that is claimed, the reference anticipates the claimed invention. As a final note, it is acknowledged that the reference discloses a ratio of  $\Delta\beta$  N1-42 and  $\Delta\beta$  N-40. This still reads on the claimed invention since the claims allows for any amyloid oligometric structure so long as  $\Delta\beta$  N-42 is present. Further, the reference discloses oligomer which have a much larger ratio of  $\Delta\beta$  N-42 than  $\Delta\beta$  N-40, for example sample 5 and 8 disclosed in table III.

The claims have also been amended to recite that the oligomeric structure exhibits neurotoxic activity. The MPEP states,:

"Where the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a prima facie case of either anticipation or obviousness has been established. In re Best, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977). "When the PTO shows a sound basis for believing that the products of the applicant and the prior art are the same, the applicant has the burden of showing that they are not." In re Spada, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). Therefore, the prima facie case can be rebutted by evidence showing that the prior art products do not necessarily possess the characteristics of the claimed product. In re Best, 562 F.2d at 1255, 195 USPQ at 433."

Here, a prima facie case of anticipation has been made as indicated above. Thus, the prior art composition would necessarily exhibit neurotoxic activity.

4. The reference of Kuo et al. was previously applied, on 6-21-02, and thus the reference has not been cited on Notice of References form.

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anish Gupta whose telephone number is (571)272-0965. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell, can normally be reached on (571) 272-0974. The fax phone number of this group is (703) 308-4242.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Anish Gupta Patent Examiner

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Ruic Campell